



Shenzhen Meihejia Technology Co., Ltd.

Antenna test report

Address: Building 43, Zhongwu Industrial Zone, Xixiang Street, Bao's District, Shenzhen



customer name	Hongli Xinda	project name	K51
Commissioning frequency band	GSM:2/3/5/8 WCDMA:1/8 LTE:1/3/5/7/8/20/28/38/40/41 W/G/B	structure mode	coaxial cable +FPC
Radio frequency engineer	Engineer Wei	construction engineer	Engineer Liang
Antenna type	PIFA	date	2025-09-8

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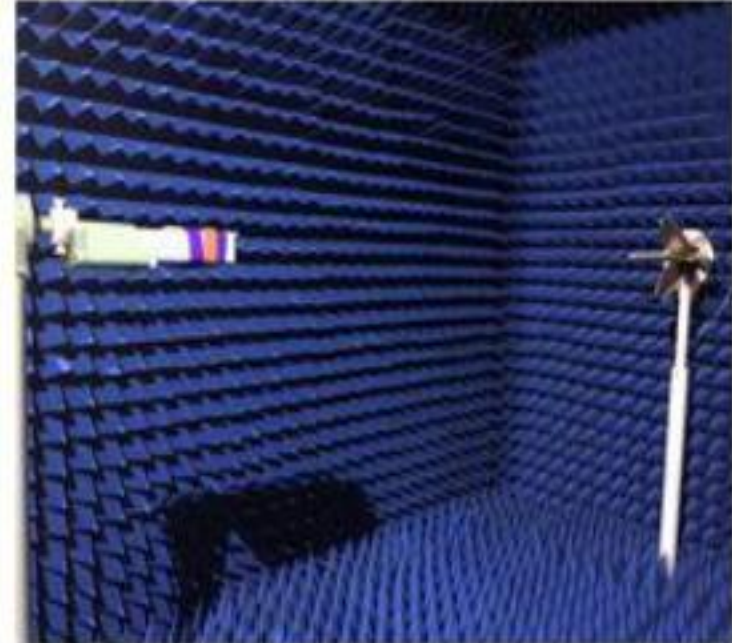
Test environment

	test project	equipment
1 (parameter)	1. (Return Loss) 2. (VSWR)	Agilent E5071B HP 8753D
2. (Active)	1. (TRP) 2. (TIS)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent 8960 E5515B × 2 StarPoint SP6011
3. (Passive)	1. (Gain) 2. (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D

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Test Equipment

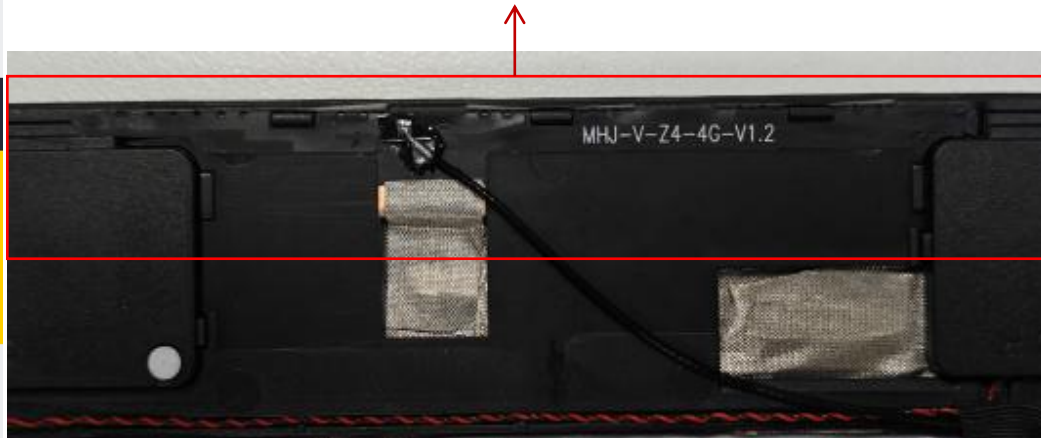


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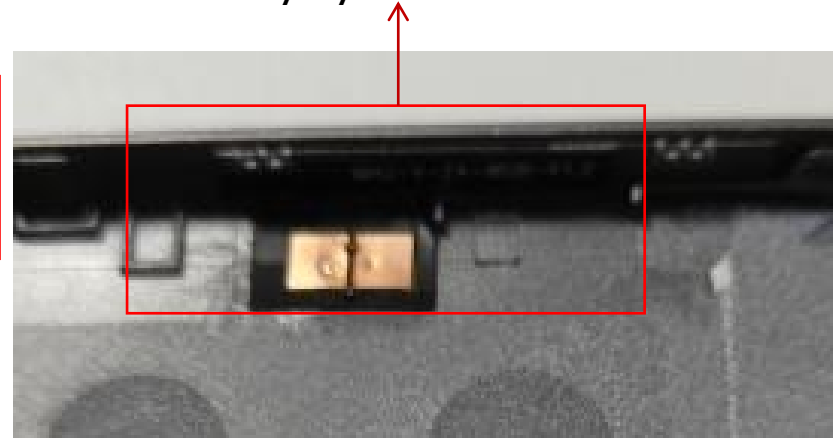


Antenna position

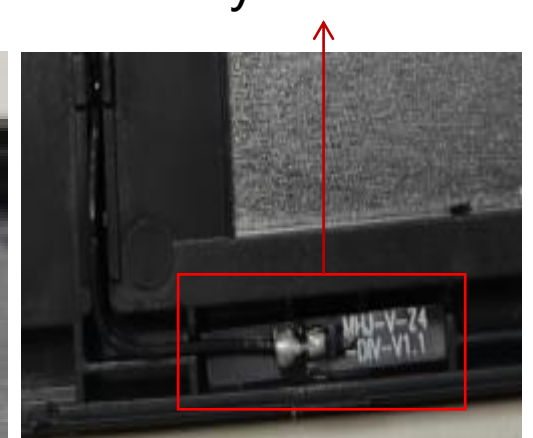
Main antenna



W/G/B antenna



diversity antenna



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GSM

Frequency Band	EGSM 900			DCS 1800		
channel	1	62	124	512	698	885
TRP	25.0	25.3	25.5	23.1	23.8	25.4
TIS			-102.5			-104.9
Frequency Band	GSM 850			PCS 1900		
channel	128	190	251	512	661	810
TRP	25.1	25.8	26.5	25.2	25.1	25.0
TIS			-102.5			-100.7

WCDMA

Frequency Band	WCDMA 2100			WCDMA 850		
channel	L	M	H	L	M	H
TRP	17.5	17.4	17.1	15.8	16.3	16.7
TIS			-101.6			-102.5

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LTE

Frequency Band	B1			B3			B5		
channel	L	M	H	L	M	H	L	M	H
TRP	16.7	16.5	16.3	18.9	19.0	19.1	17.6	17.3	16.9
TIS			-87.5			-93.0			-87.2
Frequency Band	B7			B8			B20		
channel	L	M	H	L	M	H	L	M	H
TRP	17.1	17.5	17.6	15.7	16.0	16.3	16.8	17.1	17.3
TIS			-87.6			-87.3			-88.7
Frequency Band	B28			B38			B40		
channel	L	M	H	L	M	H	L	M	H
TRP	8.4	8.2	8.1	16.7	17.2	18.1	17.1	17.5	17.9
TIS			-86.4			-92.4			-90.4
Frequency Band	B41			/			/		
channel	L	M	H	L	M	H	L	M	H
TRP	18.4	18.5	18.6	/	/	/	/	/	/
TIS			-90.3			/			/

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Active data

Band	channel	DataRate	TRP	DataRate	TIS	Band	channel	DataRate	TRP	DataRate	TIS
WIFI2. 4G 802. 11b	1	11Mbps	12. 8	11Mbps	-81. 2	WIFI-5G 802. 11A	36	54Mbps	11. 9	54Mbps	-71. 5
	7		12.5		-81. 9		64		11.5		-72. 1
	11		12.9		-82. 6		147		13.1		-73. 2

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Efficiency and gain 4G

Passive Test For D1												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
800	9.6	-10.18	-7.69	-9.84	4.892	4.706	-7.69	-22.79	2.49	30	42.72	42
810	9.99	-10	-7.35	-9.5	5.219	4.773	-7.35	-22.37	2.65	30	42.29	42.15
820	10.8	-9.67	-7.16	-9.31	5.642	5.154	-7.16	-23.55	2.51	60	42.18	42.13
830	11.91	-9.24	-6.77	-8.92	6.132	5.776	-6.77	-20.56	2.47	0	42.39	42.41
840	12.78	-8.93	-6.49	-8.64	6.601	6.182	-6.49	-18.76	2.45	0	42.51	42.62
850	13.79	-8.6	-5.98	-8.13	7.34	6.454	-5.98	-17.26	2.62	30	42.68	42.77
860	15.03	-8.23	-5.66	-7.81	8.11	6.918	-5.66	-17.15	2.57	30	42.82	43.1
870	15.59	-8.07	-5.63	-7.78	8.551	7.041	-5.63	-16.72	2.44	30	42.96	43.1
880	16.37	-7.86	-5.49	-7.64	9.042	7.333	-5.49	-17.68	2.36	30	43.16	43.39
890	16.06	-7.94	-5.44	-7.59	8.691	7.371	-5.44	-18.77	2.5	0	43.4	43.29
900	15.51	-8.09	-5.68	-7.83	7.932	7.574	-5.68	-18.68	2.42	30	43.53	43.46
910	13.89	-8.57	-6.3	-8.45	6.584	7.305	-6.3	-18.94	2.27	0	43.77	44.11
920	12.95	-8.88	-6.31	-8.46	5.681	7.271	-6.31	-19.68	2.57	90	44.16	44.23
930	10.93	-9.61	-6.29	-8.44	4.258	6.676	-6.29	-20.45	3.32	30	44.17	44.49
940	9.33	-10.3	-6.31	-8.46	3.483	5.847	-6.31	-19.61	3.99	30	44.31	44.56
950	8.48	-10.72	-6.01	-8.16	3.016	5.461	-6.01	-19.78	4.7	0	44.46	44.73
960	7.05	-11.52	-6.49	-8.64	2.532	4.514	-6.49	-18.83	5.03	0	44.12	44.24
970	6.22	-12.06	-6.76	-8.91	2.23	3.988	-6.76	-20.59	5.3	0	44.09	44.2
980	4.96	-13.04	-7.42	-9.57	1.77	3.194	-7.42	-21.69	5.62	0	44.13	43.98
990	4.26	-13.7	-8.01	-10.16	1.502	2.76	-8.01	-20.8	5.69	0	44.03	44.39
1000	6.55	-11.84	-5.96	-8.11	2.184	4.363	-5.96	-18.12	5.88	0	45.83	46.03

Efficiency and gain 4G

Passive Test For D3												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1700	21.5	-6.68	-1.48	-3.63	11.998	9.499	-1.48	-14.1	5.19	30	50.56	50.76
1710	21.46	-6.68	-1.61	-3.76	11.936	9.529	-1.61	-14.72	5.08	30	50.68	50.58
1720	21.72	-6.63	-1.63	-3.78	12.132	9.583	-1.63	-15.51	5	30	50.66	50.74
1730	20.72	-6.84	-1.92	-4.07	11.607	9.113	-1.92	-15	4.92	30	50.63	50.79
1740	20.58	-6.87	-1.87	-4.02	11.5	9.081	-1.87	-15.08	4.99	30	50.93	50.48
1750	21.46	-6.68	-1.66	-3.81	11.979	9.476	-1.66	-14.83	5.03	60	51.18	51.06
1760	22.75	-6.43	-1.67	-3.82	12.65	10.104	-1.67	-14.29	4.76	60	51.44	50.93
1770	22.19	-6.54	-1.91	-4.06	12.305	9.88	-1.91	-14.78	4.63	60	51.35	51.44
1780	21.3	-6.72	-2.15	-4.3	11.815	9.487	-2.15	-15.67	4.57	60	51.41	51.39
1790	22.47	-6.48	-1.96	-4.11	12.482	9.993	-1.96	-16.93	4.52	60	51.42	51.58
1800	22.2	-6.54	-2.16	-4.31	12.172	10.029	-2.16	-16.99	4.38	30	51.3	51.49
1810	22.4	-6.5	-2.09	-4.24	12.209	10.187	-2.09	-17.34	4.4	30	51.51	51.58
1820	23.42	-6.3	-2.04	-4.19	12.732	10.69	-2.04	-16.2	4.27	30	51.55	51.83
1830	27	-5.69	-1.53	-3.68	14.609	12.388	-1.53	-14.84	4.15	30	51.89	52.62
1840	26.58	-5.75	-1.59	-3.74	14.132	12.449	-1.59	-15.26	4.16	90	51.93	52.2
1850	25.24	-5.98	-2.15	-4.3	13.406	11.835	-2.15	-15.68	3.83	90	51.96	52.02
1860	24.2	-6.16	-2.7	-4.85	12.881	11.322	-2.7	-15.99	3.46	90	51.72	52.31
1870	22.09	-6.56	-3.34	-5.49	11.791	10.301	-3.34	-16.04	3.22	90	51.56	51.35
1880	24.1	-6.18	-2.64	-4.79	13.468	10.629	-2.64	-15.17	3.54	240	51.54	52.32
1890	22.67	-6.44	-2.85	-5	12.876	9.799	-2.85	-15.22	3.59	180	51.56	51.7
1900	23.49	-6.29	-2.54	-4.69	13.649	9.842	-2.54	-15.22	3.75	180	51.87	51.96
1910	25.65	-5.91	-1.72	-3.87	15.277	10.37	-1.72	-15.27	4.19	150	51.92	52.75
1920	24.64	-6.08	-1.7	-3.85	14.989	9.648	-1.7	-15.58	4.38	150	52.13	52.95
1930	22.48	-6.48	-2.37	-4.52	13.653	8.832	-2.37	-16.21	4.11	150	52.26	52.74
1940	23.05	-6.37	-2.19	-4.34	14.231	8.819	-2.19	-15.6	4.18	150	52.26	52.72
1950	22.53	-6.47	-2.39	-4.54	13.996	8.538	-2.39	-15.66	4.08	150	52.33	52.41
1960	19.83	-7.03	-3.02	-5.17	12.339	7.494	-3.02	-15.64	4	150	52.2	52.13



Efficiency and gain 4G

1970	19.33	-7.14	-3.2	-5.35	12.186	7.141	-3.2	-15.96	3.94	180	52.38	52.63
1980	20.5	-6.88	-2.88	-5.03	12.941	7.559	-2.88	-16.8	4	150	52.69	53.26
1990	19.82	-7.03	-3.3	-5.45	12.455	7.366	-3.3	-19.63	3.73	150	52.96	53.07
2000	18.19	-7.4	-3.76	-5.91	11.261	6.933	-3.76	-18.52	3.64	210	52.96	53.44
2010	17.4	-7.59	-4.21	-6.36	10.753	6.648	-4.21	-22	3.39	180	52.95	53.45
2020	16.62	-7.79	-4.4	-6.55	10.203	6.415	-4.4	-23.48	3.4	180	52.89	53.62
2030	15.21	-8.18	-5.22	-7.37	9.269	5.942	-5.22	-19.33	2.96	180	52.97	53.36
2040	13.78	-8.61	-5.51	-7.66	8.331	5.453	-5.51	-19.15	3.09	180	53.17	53.74
2050	12.54	-9.02	-5.61	-7.76	7.654	4.886	-5.61	-17.32	3.41	180	53.45	53.99
2060	12.94	-8.88	-5.43	-7.58	7.805	5.135	-5.43	-16.03	3.45	120	53.75	54.01
2070	13.25	-8.78	-5.42	-7.57	7.787	5.46	-5.42	-14.37	3.36	120	53.78	54.53
2080	11.25	-9.49	-6.21	-8.36	6.541	4.714	-6.21	-15.21	3.28	120	53.61	54.52
2090	8.97	-10.47	-6.91	-9.06	5.186	3.789	-6.91	-15.46	3.56	90	53.39	52.95
2100	10.08	-9.97	-6.41	-8.56	5.768	4.309	-6.41	-14.49	3.55	90	53.21	53.74

Efficiency and gain 4G

Passive Test For D4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2110	9.17	-10.37	-6.75	-8.9	5.282	3.893	-6.75	-14.99	3.63	60	52.81	53.4
2120	9.35	-10.29	-6.99	-9.14	5.287	4.061	-6.99	-15.55	3.3	90	53.09	54.12
2130	9.1	-10.41	-6.56	-8.71	5.137	3.962	-6.56	-16.21	3.85	90	53.4	53.93
2140	9.77	-10.1	-6.07	-8.22	5.47	4.302	-6.07	-15.02	4.03	30	53.42	53.81
2150	8.72	-10.59	-6.59	-8.74	4.836	3.889	-6.59	-15.85	4	30	53.14	53.74
2160	8.91	-10.5	-6.74	-8.89	4.851	4.062	-6.74	-15.73	3.76	90	53.36	54.43
2170	9.7	-10.13	-6.63	-8.78	5.308	4.391	-6.63	-15.65	3.5	90	53.24	54.18
2180	9.55	-10.2	-6.66	-8.81	5.045	4.506	-6.66	-15.23	3.54	60	53.12	53.45
2190	10.31	-9.87	-6.65	-8.8	5.338	4.973	-6.65	-15.61	3.21	90	53.06	53.71
2200	11.45	-9.41	-6.44	-8.59	5.789	5.666	-6.44	-16.04	2.97	60	53.52	54.5
2210	12.68	-8.97	-6.02	-8.17	6.204	6.478	-6.02	-17.42	2.95	60	53.71	54.72
2220	13.14	-8.81	-5.84	-7.99	6.437	6.704	-5.84	-15.57	2.97	60	53.67	54.38
2230	12.22	-9.13	-5.84	-7.99	5.837	6.382	-5.84	-15.65	3.29	60	53.53	54.57
2240	12.78	-8.94	-5.54	-7.69	6.064	6.714	-5.54	-16.51	3.39	60	53.59	54.86
2250	13.76	-8.61	-4.78	-6.93	6.207	7.552	-4.78	-16.1	3.84	60	53.72	55.1
2260	15.31	-8.15	-3.89	-6.04	6.517	8.788	-3.89	-18.73	4.26	60	53.84	55.61
2270	13.36	-8.74	-4.3	-6.45	5.406	7.951	-4.3	-18.23	4.44	60	53.94	55.12
2280	13.28	-8.77	-4.1	-6.25	5.096	8.184	-4.1	-19.41	4.67	60	54.09	55.43
2290	15.36	-8.14	-3.31	-5.46	5.714	9.645	-3.31	-18.98	4.83	60	54.85	56.01
2300	18.01	-7.44	-2.51	-4.66	6.54	11.471	-2.51	-18.52	4.94	60	55.12	56.6
2310	16.54	-7.81	-2.57	-4.72	5.695	10.845	-2.57	-20.37	5.24	60	54.91	56.5
2320	13.89	-8.57	-3.21	-5.36	4.452	9.437	-3.21	-22.61	5.36	60	54.8	56.13
2330	13.74	-8.62	-3.18	-5.33	4.295	9.445	-3.18	-24.08	5.44	60	55.05	56.33
2340	16.34	-7.87	-2.03	-4.18	4.966	11.377	-2.03	-22.05	5.84	30	55.41	57.9
2350	14.3	-8.45	-2.41	-4.56	4.253	10.047	-2.41	-22.49	6.03	30	55.72	57.75
2360	13.09	-8.83	-2.89	-5.04	4.019	9.07	-2.89	-22	5.94	30	55.95	57.79
2370	11.79	-9.29	-3.56	-5.71	3.757	8.029	-3.56	-24.99	5.72	30	55.79	57.25



Efficiency and gain 4G

2380	12.03	-9.2	-3.47	-5.62	3.939	8.091	-3.47	-23.26	5.73	30	55.95	57.45
2390	12.21	-9.13	-3.41	-5.56	4.137	8.068	-3.41	-25.39	5.73	30	55.8	57.98
2400	10.54	-9.77	-4.28	-6.43	3.689	6.848	-4.28	-26.1	5.49	60	55.76	57.21
2410	12.53	-9.02	-3.08	-5.23	4.617	7.917	-3.08	-23.86	5.94	30	55.83	58.53
2420	12.27	-9.11	-3.5	-5.65	4.676	7.591	-3.5	-27.67	5.61	30	56.07	58.09
2430	12.3	-9.1	-3.46	-5.61	4.655	7.648	-3.46	-25.71	5.64	60	56.25	58.05
2440	12.69	-8.97	-3.32	-5.47	4.951	7.735	-3.32	-23.59	5.65	30	56.61	58.56
2450	12.55	-9.02	-3.25	-5.4	4.972	7.573	-3.25	-20.49	5.76	30	56.87	58.64
2460	11.71	-9.32	-3.79	-5.94	4.759	6.949	-3.79	-20.31	5.52	30	56.54	57.97
2470	11.14	-9.53	-3.88	-6.03	4.397	6.743	-3.88	-21.24	5.66	30	56.17	58.01
2480	11.22	-9.5	-4.11	-6.26	4.455	6.767	-4.11	-17.98	5.39	30	56.4	57.83
2490	10.87	-9.64	-4.52	-6.67	4.316	6.556	-4.52	-19.91	5.11	30	56.48	57.83
2500	10.24	-9.9	-4.74	-6.89	4.222	6.018	-4.74	-16.67	5.15	30	56.61	58.07
2510	10.7	-9.71	-4.87	-7.02	4.217	6.486	-4.87	-17.02	4.83	30	56.67	57.71
2520	10.17	-9.93	-4.96	-7.11	4.166	6.002	-4.96	-16.49	4.96	30	56.43	57.53
2530	10.22	-9.9	-5.03	-7.18	4.069	6.155	-5.03	-17.36	4.87	0	56.01	57.64
2540	8.87	-10.52	-5.15	-7.3	3.663	5.204	-5.15	-18.16	5.37	30	55.93	56.88
2550	9.12	-10.4	-5.5	-7.65	3.838	5.28	-5.5	-16.71	4.91	0	56.13	56.87
2560	9.75	-10.11	-5.22	-7.37	4.103	5.644	-5.22	-16.72	4.89	30	56.34	57.38
2570	10.6	-9.75	-4.3	-6.45	4.416	6.184	-4.3	-19.15	5.44	0	56.6	58.31
2580	8.59	-10.66	-6.1	-8.25	3.642	4.953	-6.1	-17.71	4.56	0	56.27	56.52
2590	9	-10.46	-5.72	-7.87	3.687	5.311	-5.72	-18.41	4.74	0	56.34	56.49
2600	9.36	-10.29	-5.71	-7.86	3.859	5.503	-5.71	-17.18	4.57	0	56.36	56.49
2610	9.88	-10.05	-5.29	-7.44	4.157	5.723	-5.29	-19.12	4.76	0	56.44	57
2620	9.06	-10.43	-4.97	-7.12	3.572	5.485	-4.97	-20.86	5.46	30	56.28	56.17
2630	10.23	-9.9	-5.11	-7.26	4.113	6.112	-5.11	-16.94	4.79	0	56.47	56.78
2640	11.43	-9.42	-4.42	-6.57	4.544	6.885	-4.42	-18.27	5	0	56.79	57.41
2650	10.23	-9.9	-4.91	-7.06	3.933	6.302	-4.91	-19.07	4.99	0	57.31	57.11
2660	12.63	-8.99	-4	-6.15	4.727	7.903	-4	-18.72	4.98	0	57.71	58.3
2670	14.96	-8.25	-2.88	-5.03	5.523	9.439	-2.88	-19.72	5.37	0	57.8	58.5



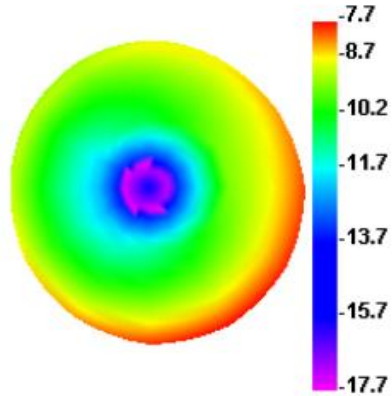
Efficiency and gain 4G

2680	15.35	-8.14	-2.68	-4.83	5.544	9.809	-2.68	-22.13	5.46	0	57.75	58.3
2690	14.13	-8.5	-2.74	-4.89	4.857	9.27	-2.74	-22.06	5.76	0	57.63	57.85
2700	12.23	-9.13	-2.96	-5.11	4.085	8.144	-2.96	-22.72	6.17	0	57.44	57.44
2710	13.6	-8.66	-2.44	-4.59	4.428	9.172	-2.44	-22.66	6.23	0	57.88	58.15
2720	16.01	-7.95	-1.6	-3.75	4.911	11.104	-1.6	-23.52	6.35	0	58.5	58.3
2730	17.03	-7.69	-1.62	-3.77	5.316	11.713	-1.62	-15.44	6.07	0	58.49	58.98
2740	16.8	-7.75	-1.24	-3.39	5.117	11.688	-1.24	-15.91	6.51	0	58.67	59.01
2750	16.22	-7.9	-1.95	-4.1	5.157	11.064	-1.95	-17.33	5.95	0	58.87	58.56

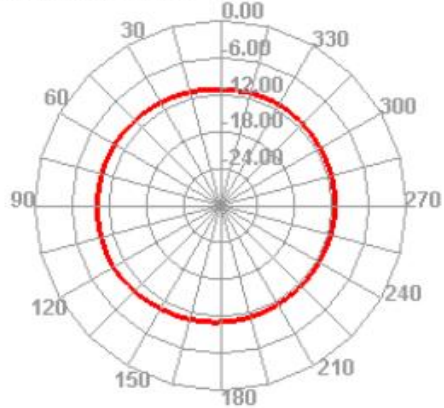


Efficiency and gain 4G

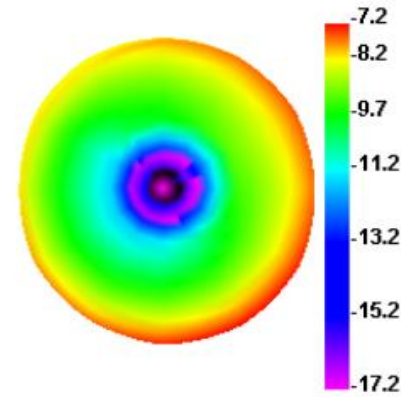
800.000MHz



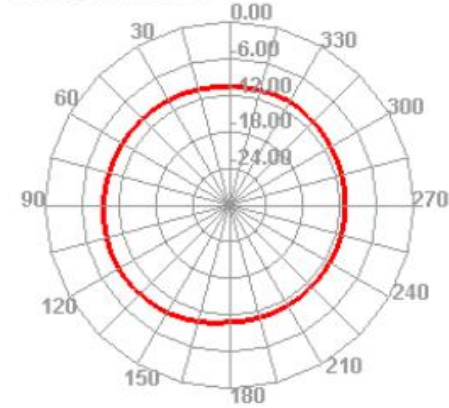
800.000MHz H



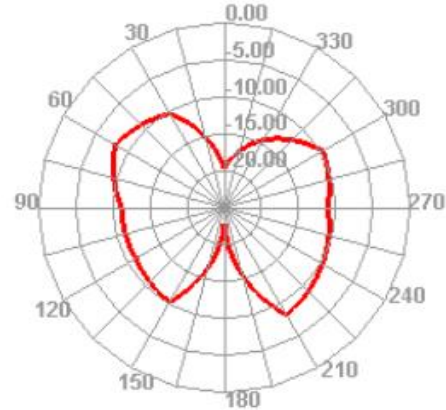
820.000MHz



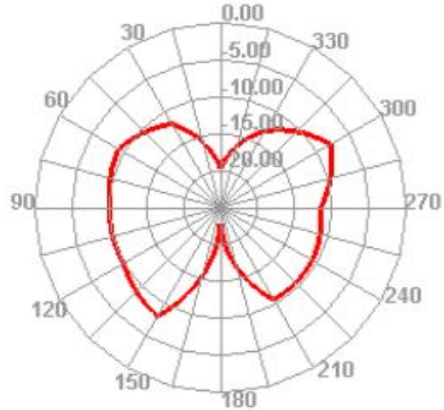
820.000MHz H



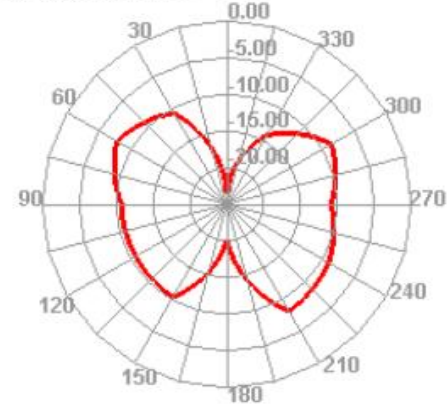
800.000MHz E1



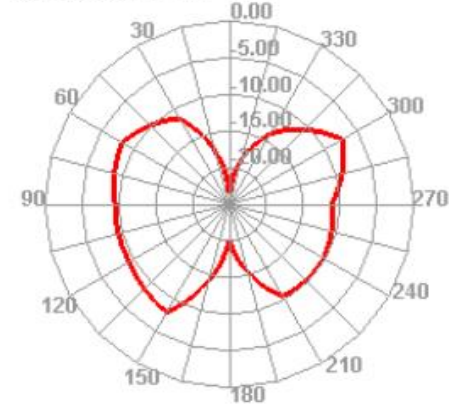
800.000MHz E2



820.000MHz E1



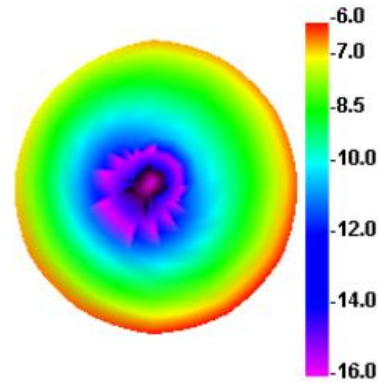
820.000MHz E2



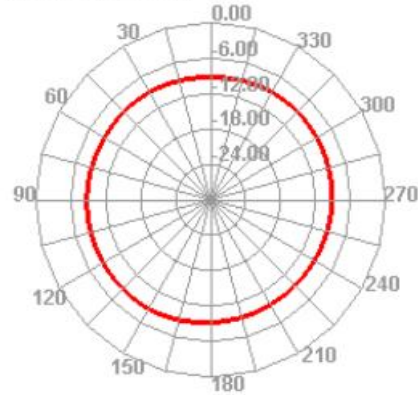


Efficiency and gain 4G

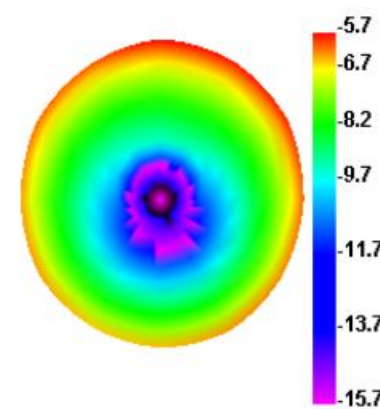
850.000MHz



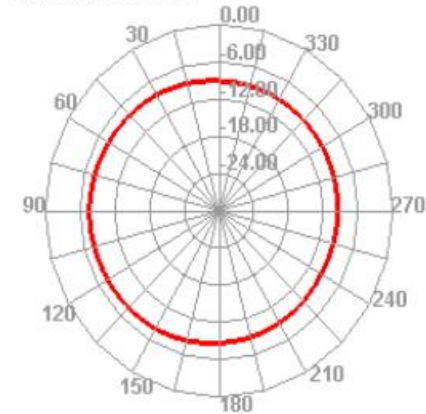
850.000MHz H



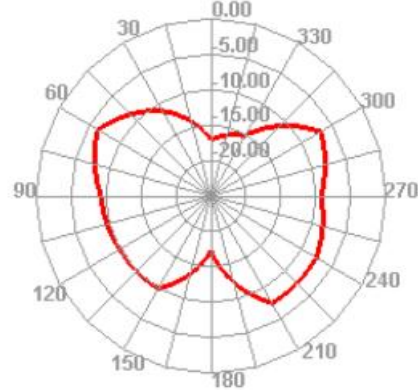
900.000MHz



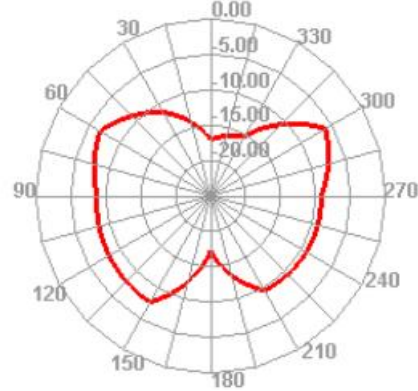
900.000MHz H



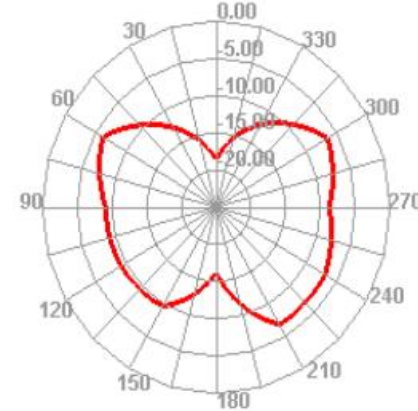
850.000MHz E1



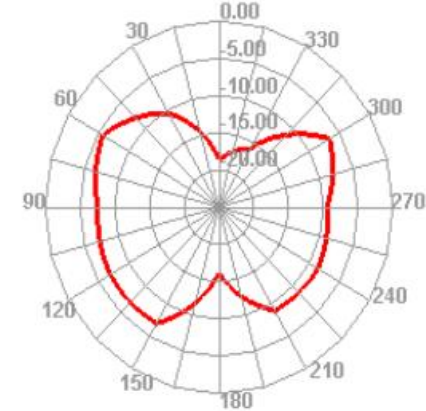
850.000MHz E2



900.000MHz E1

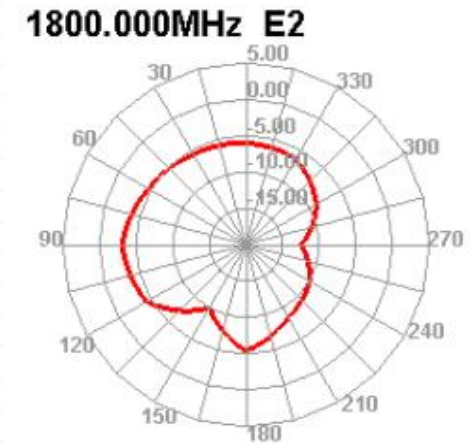
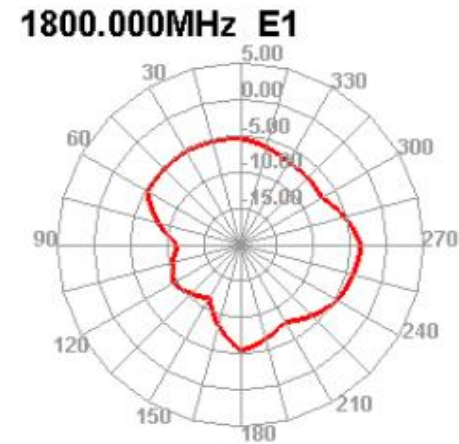
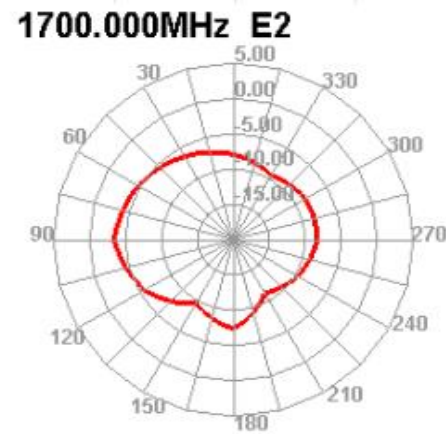
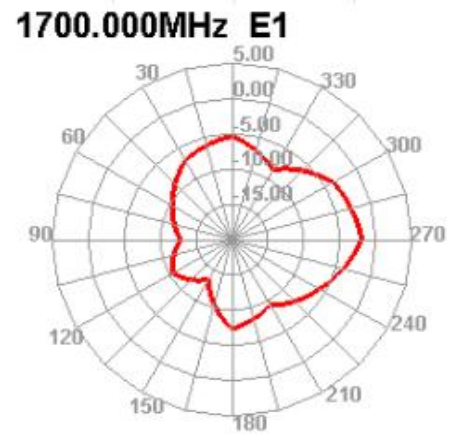
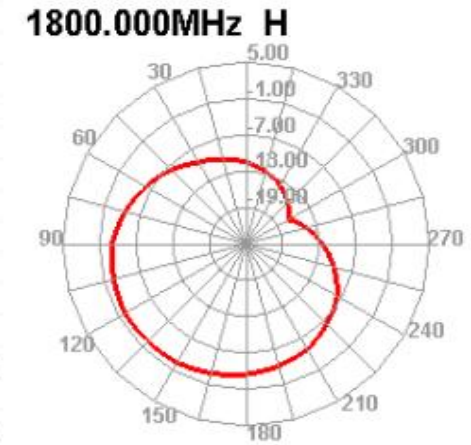
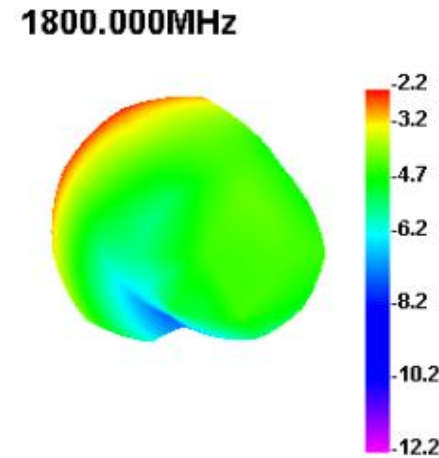
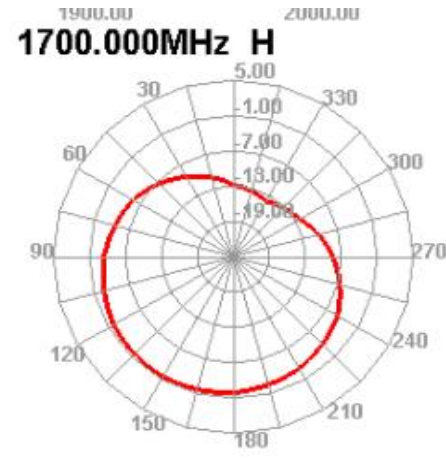
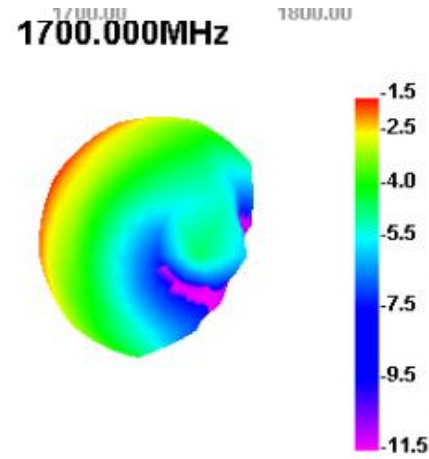


900.000MHz E2





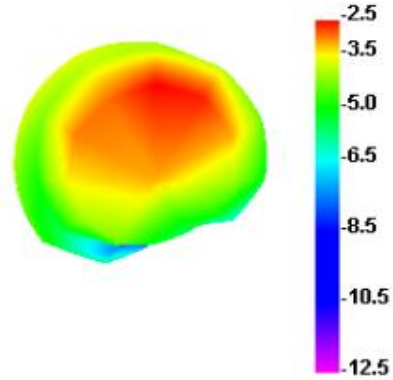
Efficiency and gain 4G



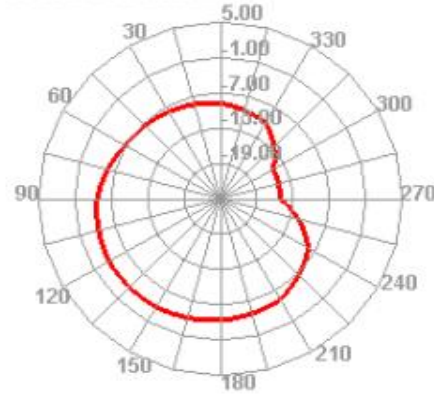


Efficiency and gain 4G

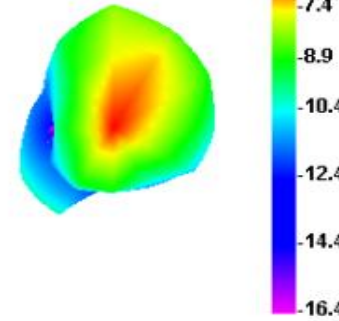
1900.000MHz



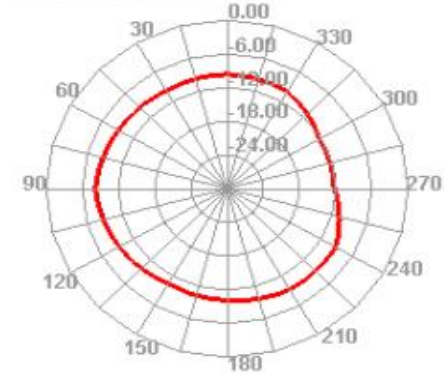
1900.000MHz H



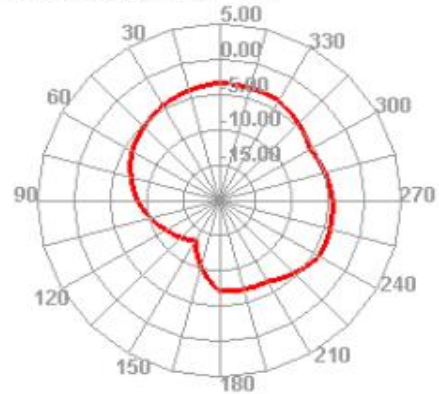
2100.000MHz



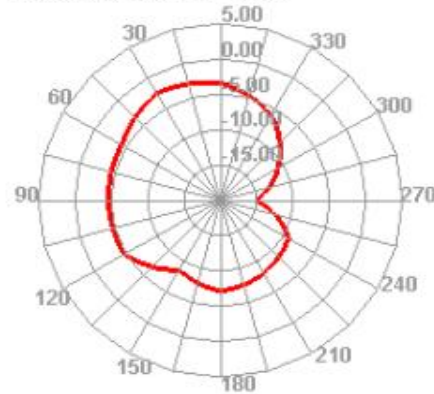
2100.000MHz H



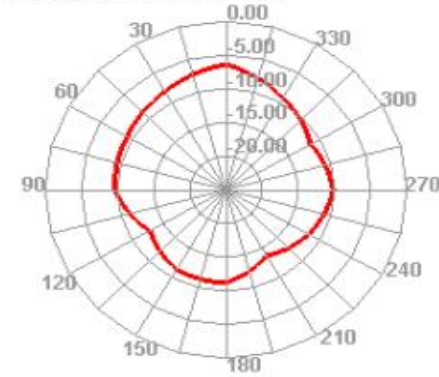
1900.000MHz E1



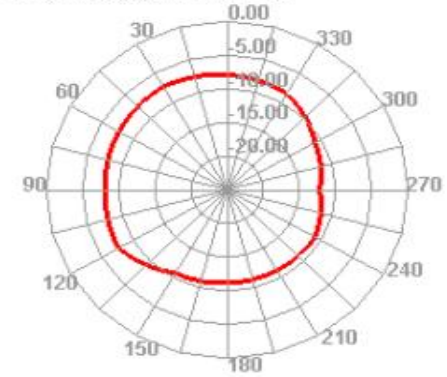
1900.000MHz E2



2100.000MHz E1



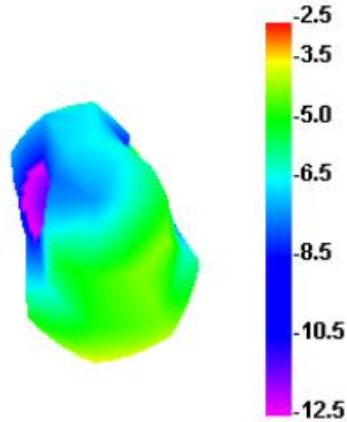
2100.000MHz E2



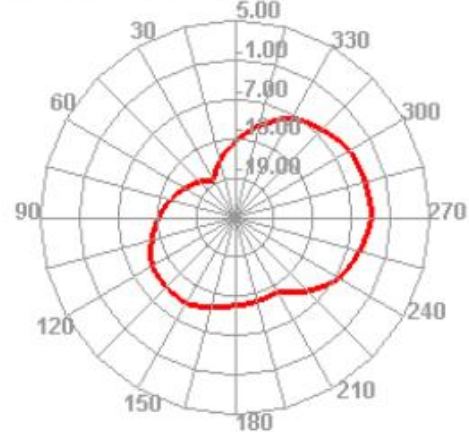


Efficiency and gain 4G

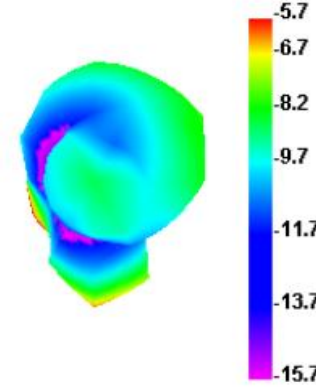
2300.000MHz



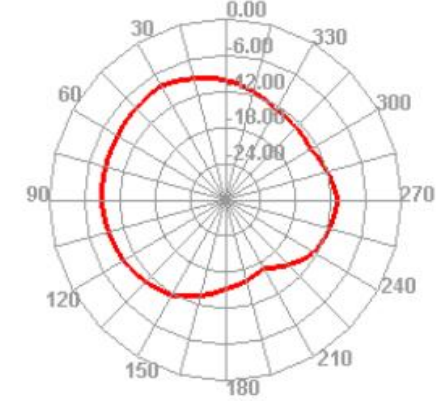
2300.000MHz H



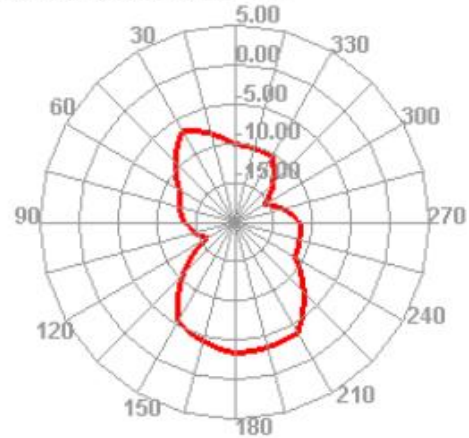
2600.000MHz



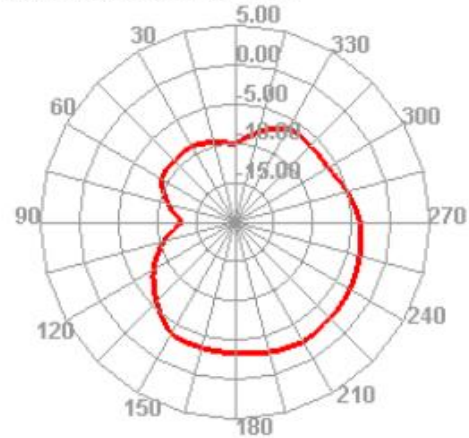
2600.000MHz H



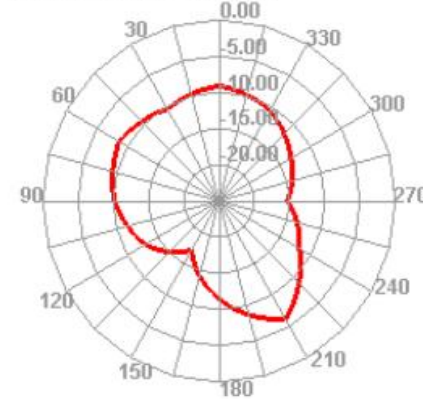
2300.000MHz E1



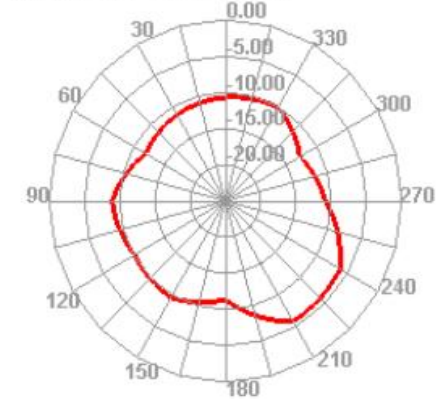
2300.000MHz E2



2600.000MHz E1



2600.000MHz E2

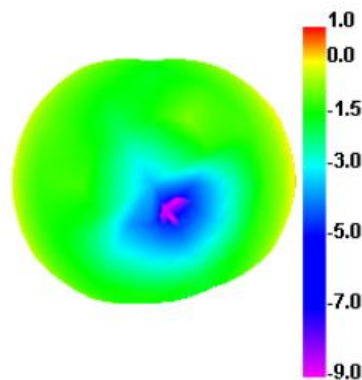


Efficiency and gain-WIFI2.4G

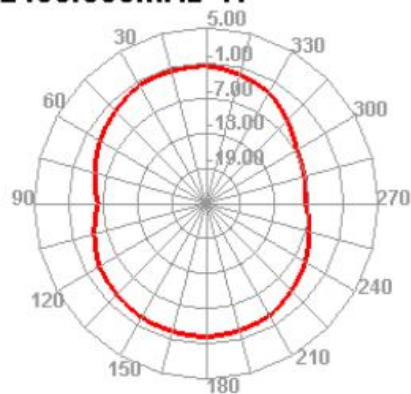
Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2300	48.72	-3.12	1.3	-0.85	13.53	35.192	1.3	-31.88	4.43	30	55.12	56.6
2310	47.34	-3.25	1.24	-0.91	13.399	33.942	1.24	-33.98	4.48	30	54.91	56.5
2320	45.85	-3.39	1.3	-0.85	13.029	32.818	1.3	-30.71	4.69	30	54.8	56.13
2330	47.15	-3.26	1.37	-0.78	13.275	33.877	1.37	-23.58	4.63	30	55.05	56.33
2340	46.68	-3.31	1.69	-0.46	13.659	33.024	1.69	-28.52	5	30	55.41	57.9
2350	46.56	-3.32	1.6	-0.55	13.858	32.701	1.6	-28.13	4.92	60	55.72	57.75
2360	47.88	-3.2	1.77	-0.38	13.94	33.944	1.77	-29.14	4.97	0	55.95	57.79
2370	45.38	-3.43	1.74	-0.41	13.198	32.178	1.74	-28.36	5.17	30	55.79	57.25
2380	45.29	-3.44	1.74	-0.41	13.604	31.684	1.74	-31.96	5.18	0	55.95	57.45
2390	42.19	-3.75	1.38	-0.77	13.386	28.802	1.38	-28.91	5.12	0	55.8	57.98
2400	39.79	-4	1.04	-1.11	13.122	26.668	1.04	-30.34	5.04	0	55.76	57.21
2410	40.56	-3.92	0.99	-1.16	13.605	26.951	0.99	-24.99	4.91	0	55.83	58.53
2420	41.66	-3.8	1.01	-1.14	14.873	26.784	1.01	-16.79	4.81	0	56.07	58.09
2430	42.89	-3.68	0.81	-1.34	16.337	26.553	0.81	-29.15	4.49	0	56.25	58.05
2440	45.1	-3.46	1.21	-0.94	17.365	27.732	1.21	-26.94	4.67	0	56.61	58.56
2450	50.76	-2.95	1.51	-0.64	20.593	30.163	1.51	-27.74	4.46	0	56.87	58.64
2460	45.99	-3.37	0.83	-1.32	19.563	26.43	0.83	-26.19	4.2	0	56.54	57.97
2470	41.38	-3.83	-0.01	-2.16	18.395	22.983	-0.01	-27.36	3.82	0	56.17	58.01
2480	40.88	-3.88	0.44	-1.71	18.761	22.119	0.44	-30.64	4.32	0	56.4	57.83
2490	42.18	-3.75	0.41	-1.74	19.024	23.154	0.41	-32.46	4.16	0	56.48	57.83
2500	40.56	-3.92	0.27	-1.88	18.008	22.555	0.27	-29.45	4.19	0	56.61	58.07
2510	34.97	-4.56	-0.26	-2.41	15.482	19.488	-0.26	-31.5	4.31	0	56.67	57.71
2520	33.88	-4.7	0.23	-1.92	14.894	18.984	0.23	-25.58	4.93	0	56.43	57.53
2530	33.43	-4.76	0.28	-1.87	14.348	19.084	0.28	-28.13	5.04	0	56.01	57.64
2540	32.85	-4.83	0.33	-1.82	13.636	19.215	0.33	-38.04	5.17	0	55.93	56.88
2550	32.37	-4.9	0.34	-1.81	13.41	18.956	0.34	-35.45	5.23	0	56.13	56.87
2560	31.18	-5.06	0.45	-1.7	12.814	18.368	0.45	-40.14	5.52	0	56.34	57.38
2570	33.97	-4.69	1.3	-0.85	13.379	20.587	1.3	-31.96	5.99	0	56.6	58.31
2580	32.83	-4.84	1.34	-0.81	13.185	19.646	1.34	-35.7	6.17	0	56.27	56.52
2590	30.51	-5.16	1.27	-0.88	12.119	18.394	1.27	-27.25	6.43	0	56.34	56.49
2600	31.01	-5.09	1.43	-0.72	12.531	18.479	1.43	-29.87	6.51	0	56.36	56.49

Efficiency and gain-WIFI2.4G

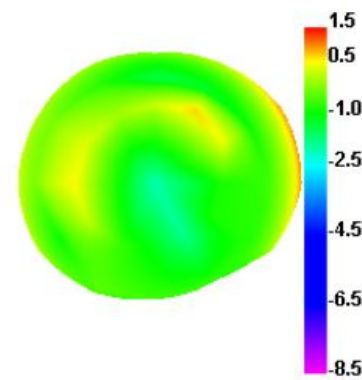
2400.000MHz



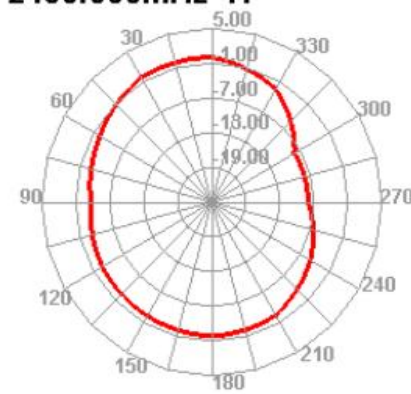
2400.000MHz H



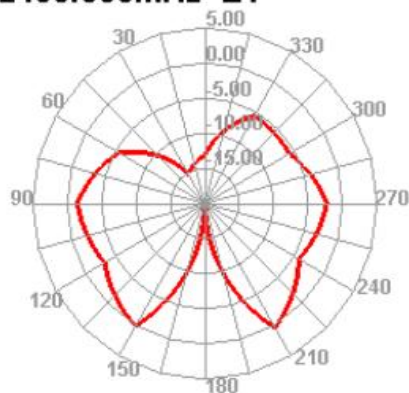
2450.000MHz



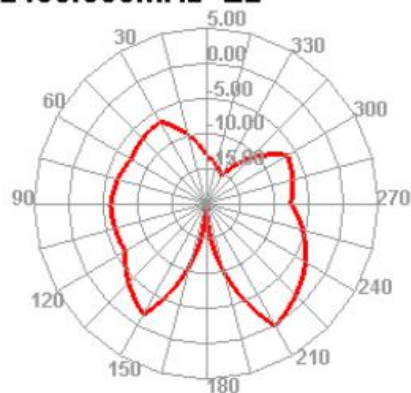
2450.000MHz H



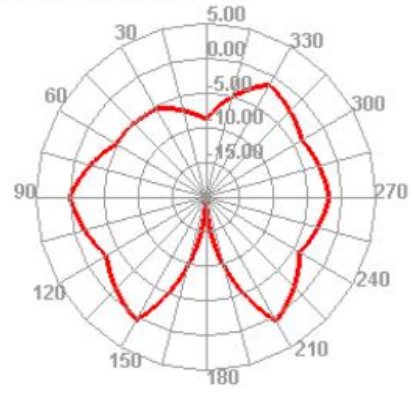
2400.000MHz E1



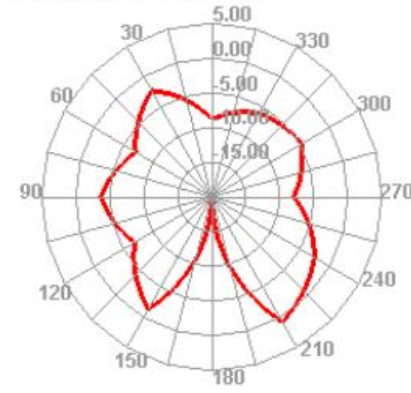
2400.000MHz E2



2450.000MHz E1



2450.000MHz E2



Efficiency and gain WiFi-5G

Passive Test For 5.8G-WIFI												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5000	9.35	-10.29	-4.73	-6.88	3.63	5.723	-4.73	-19.89	5.56	0	67.59	67.15
5010	8.86	-10.52	-5.4	-7.55	3.188	5.675	-5.4	-25.78	5.12	60	67.25	67.25
5020	7.82	-11.07	-5.45	-7.6	3.031	4.793	-5.45	-24.94	5.61	0	67.11	66.78
5030	11.45	-9.41	-3.67	-5.82	4.213	7.238	-3.67	-21.39	5.74	60	67.76	67.35
5040	10.22	-9.91	-4.83	-6.98	3.866	6.354	-4.83	-20.15	5.07	60	67.13	67.04
5050	8.25	-10.83	-4.09	-6.24	3.182	5.069	-4.09	-20.98	6.75	60	66.47	66.63
5060	9.64	-10.16	-4.42	-6.57	3.448	6.188	-4.42	-18.95	5.75	0	67.42	66.67
5070	10.68	-9.71	-4.8	-6.95	4.287	6.395	-4.8	-20.13	4.91	60	67.46	67.76
5080	12.8	-8.93	0.74	-1.41	4.261	8.534	0.74	-19.43	9.67	60	67.63	67.28
5090	7.32	-11.36	-3.13	-5.28	2.819	4.5	-3.13	-25.25	8.23	0	66.15	66.39
5100	6.88	-11.62	-5.74	-7.89	2.923	3.956	-5.74	-23.73	5.88	0	66.56	66.39
5110	7.93	-11	-5.4	-7.55	3.197	4.737	-5.4	-22.65	5.6	0	66.88	66.93
5120	9.45	-10.25	-4.68	-6.83	4.045	5.404	-4.68	-20.07	5.57	60	67.44	67.82
5130	8.05	-10.94	-3.92	-6.07	3.368	4.685	-3.92	-23.82	7.02	90	67	66.75
5140	7.15	-11.46	-5.43	-7.58	2.676	4.471	-5.43	-21.69	6.03	60	66.68	67
5150	8.18	-10.87	-4.75	-6.9	3.355	4.821	-4.75	-20.51	6.12	60	67.18	67.14
5160	9.26	-10.34	-3	-5.15	3.187	6.07	-3	-23.9	7.34	0	66.81	67.73
5170	7.07	-11.51	-2.48	-4.63	2.871	4.196	-2.48	-24.37	9.03	0	65.87	66.43
5180	6.44	-11.91	-5.4	-7.55	2.864	3.573	-5.4	-22.5	6.51	0	66.36	66.36
5190	6.88	-11.63	-3.6	-5.75	2.837	4.039	-3.6	-21.95	8.02	60	66.92	66.86
5200	9.99	-10	-3.58	-5.73	4.117	5.874	-3.58	-22.25	6.42	0	67.83	67.32
5210	7.94	-11	-2.02	-4.17	2.782	5.156	-2.02	-21.11	8.99	0	66.63	66.87
5220	5.22	-12.82	-5.61	-7.76	1.712	3.51	-5.61	-27.13	7.21	0	66.14	66.79
5230	6.84	-11.65	-6.99	-9.14	2.581	4.254	-6.99	-21.94	4.66	60	66.62	66.67
5240	8.5	-10.71	-3.35	-5.5	3.171	5.328	-3.35	-22.76	7.36	30	67.24	67.2
5250	8.72	-10.6	-4.17	-6.32	3.087	5.63	-4.17	-24.71	6.43	0	66.74	66.84
5260	7.12	-11.48	-4.88	-7.03	2.746	4.37	-4.88	-24.69	6.6	0	66.13	66.86

Efficiency and gain WiFi-5G

5270	8.93	-10.49	-3.94	-6.09	3.315	5.617	-3.94	-23.03	6.55	0	67.31	67.39
5280	9.31	-10.31	-4.5	-6.65	3.627	5.687	-4.5	-20.51	5.81	0	67.44	67.58
5290	10.72	-9.7	-1.96	-4.11	3.933	6.79	-1.96	-19.71	7.73	0	67.18	67.28
5300	8.97	-10.47	-4.28	-6.43	3.155	5.817	-4.28	-21.16	6.19	0	66.54	66.18
5310	9.4	-10.27	-3.53	-5.68	3.531	5.872	-3.53	-18.76	6.74	0	67.13	67.4
5320	12.51	-9.03	0.49	-1.66	4.279	8.231	0.49	-18.91	9.51	0	67.85	67.87
5330	14.88	-8.27	-0.69	-2.84	5.161	9.723	-0.69	-24.09	7.58	0	68.01	67.78
5340	12.12	-9.17	-2.17	-4.32	4.622	7.494	-2.17	-21.55	7	120	67.21	67.25
5350	12.41	-9.06	-1.9	-4.05	4.863	7.546	-1.9	-19.36	7.16	0	67.31	67.51
5360	17.27	-7.63	-0.8	-2.95	6.847	10.423	-0.8	-16.16	6.83	0	68.07	68.63
5370	15.34	-8.14	-1.2	-3.35	5.502	9.838	-1.2	-17.26	6.94	0	67.01	67.79
5380	13.94	-8.56	-1	-3.15	5.7	8.243	-1	-20.4	7.55	0	67.01	67.08
5390	15.26	-8.17	0.27	-1.88	5.489	9.769	0.27	-18.69	8.44	60	67.71	68.23
5400	17.39	-7.6	-2.02	-4.17	7.123	10.263	-2.02	-15.98	5.58	90	68.37	68.36
5410	17.81	-7.49	-1.65	-3.8	6.97	10.837	-1.65	-19.96	5.84	0	68.69	68.99
5420	14.07	-8.52	-2.58	-4.73	5.352	8.718	-2.58	-21.77	5.94	0	68.22	68.54
5430	13.15	-8.81	-2.77	-4.92	5.006	8.141	-2.77	-18.38	6.04	30	68.79	68.71
5440	18.63	-7.3	-0.44	-2.59	7.075	11.551	-0.44	-24.49	6.86	90	69.15	69.68
5450	22.42	-6.49	-0.81	-2.96	8.513	13.909	-0.81	-18.82	5.69	30	69.39	70.32
5460	19.13	-7.18	-1.51	-3.66	7.303	11.828	-1.51	-15.98	5.67	90	68.71	69.65
5470	22.88	-6.41	0.46	-1.69	8.125	14.754	0.46	-17.73	6.87	0	69.96	70.43
5480	24.83	-6.05	0.08	-2.07	11.345	13.483	0.08	-18.49	6.13	90	70.59	70.87
5490	35.5	-4.5	0.94	-1.21	14.097	21.405	0.94	-13.96	5.44	180	71.44	72.04
5500	33.3	-4.78	0.73	-1.42	13.403	19.895	0.73	-14.02	5.51	30	70.94	71.47
5510	31.79	-4.98	0.75	-1.4	11.129	20.66	0.75	-20.61	5.73	30	71.33	71.74
5520	37.5	-4.26	2.24	0.09	13.593	23.912	2.24	-21.16	6.5	90	71.27	72.5
5530	38.84	-4.11	1.74	-0.41	13.858	24.985	1.74	-23.29	5.85	150	71.35	72.23
5540	54.71	-2.62	7.07	4.92	17.665	37.047	7.07	-11.13	9.69	0	71.82	72.96
5550	41.3	-3.84	6.19	4.04	16.766	24.531	6.19	-18.91	10.04	0	71.36	72.61
5560	34.49	-4.62	0.79	-1.36	13.426	21.068	0.79	-22.94	5.41	0	71.89	72.61

Efficiency and gain WiFi-5G

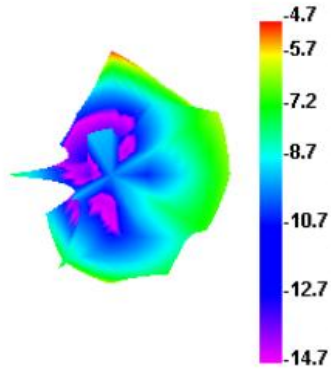
5570	40.33	-3.94	1.93	-0.22	14.838	25.487	1.93	-20.32	5.87	0	71.6	72.72
5580	49.58	-3.05	4.18	2.03	18.174	31.407	4.18	-15.39	7.22	150	71.96	73.06
5590	48.62	-3.13	2.96	0.81	17.844	30.779	2.96	-11.79	6.09	60	71.65	72.87
5600	51.54	-2.88	3.35	1.2	17.909	33.634	3.35	-14.17	6.23	30	71.47	73.22
5610	47.28	-3.25	2.39	0.24	19.144	28.141	2.39	-15.65	5.65	0	71.96	72.93
5620	40.46	-3.93	2.2	0.05	13.618	26.838	2.2	-14.64	6.13	90	71.01	72.79
5630	37.5	-4.26	1.68	-0.47	14.185	23.317	1.68	-16.25	5.94	0	70.85	72.39
5640	33.81	-4.71	0.4	-1.75	12.615	21.197	0.4	-17.79	5.11	90	71.18	71.44
5650	45.98	-3.37	2.43	0.28	16.726	29.249	2.43	-14.3	5.8	0	71.79	72.29
5660	45.03	-3.47	2.38	0.23	15.174	29.854	2.38	-13.21	5.84	0	70.44	72.31
5670	44.58	-3.51	2.7	0.55	17.79	26.791	2.7	-16.74	6.21	90	70.08	72.1
5680	34.89	-4.57	1.02	-1.13	12.446	22.446	1.02	-22.44	5.6	60	70.33	71.36
5690	41.77	-3.79	2.26	0.11	14.873	26.896	2.26	-18.12	6.06	0	70.33	71.86
5700	35.17	-4.54	1.52	-0.63	11.898	23.271	1.52	-17.77	6.06	90	70.18	70.93
5710	32.91	-4.83	0.83	-1.32	11.398	21.512	0.83	-16.11	5.66	90	69.69	70.25
5720	36.51	-4.38	0.69	-1.46	12.943	23.563	0.69	-13.6	5.07	60	69.32	70.36
5730	35.9	-4.45	1.53	-0.62	12.949	22.947	1.53	-22.77	5.98	60	68.89	69.94
5740	39.92	-3.99	3.18	1.03	14.577	25.343	3.18	-15.29	7.17	90	69.81	70.54
5750	32.69	-4.86	1.58	-0.57	11.482	21.205	1.58	-17.6	6.44	90	69.58	70.68
5760	42.36	-3.73	3.99	1.84	13.324	29.04	3.99	-13.01	7.72	60	69.91	71.25
5770	28.32	-5.48	1.83	-0.32	9.686	18.633	1.83	-17.68	7.31	90	69.93	70.79
5780	32.05	-4.94	1.09	-1.06	10.916	21.139	1.09	-16.14	6.03	90	70.15	71.07
5790	34.16	-4.66	5.05	2.9	10.291	23.872	5.05	-15.81	9.71	0	69.67	70.57
5800	33.99	-4.69	1.6	-0.55	11.423	22.567	1.6	-18.53	6.29	60	70	71.21
5810	31.45	-5.02	0.68	-1.47	10.923	20.53	0.68	-20.04	5.71	0	69.83	71.13
5820	27.19	-5.66	-0.99	-3.14	9.575	17.616	-0.99	-17.59	4.66	90	70.29	71.5
5830	23.87	-6.22	-0.07	-2.22	8.813	15.058	-0.07	-20.62	6.15	60	70.64	70.74
5840	32.53	-4.88	2.14	-0.01	11.417	21.114	2.14	-19.8	7.01	0	70.75	72.13
5850	27.06	-5.68	0.31	-1.84	9.673	17.383	0.31	-17.37	5.98	60	70.78	70.75
5860	33.11	-4.8	1.81	-0.34	11.728	21.386	1.81	-17.9	6.61	90	71.11	71.73

Efficiency and gain WiFi-5G

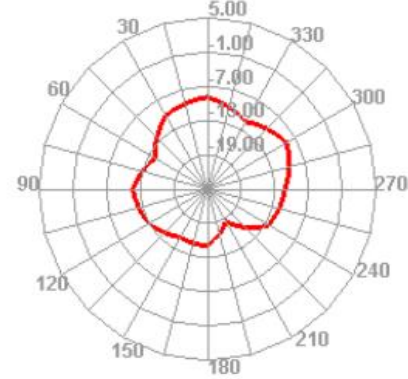
5870	35.92	-4.45	4.53	2.38	11.911	24.005	4.53	-21.95	8.98	60	70.79	71.9
5880	40.78	-3.9	2.35	0.2	14.122	26.657	2.35	-17.5	6.24	0	70.61	73.79
5890	32.34	-4.9	1.97	-0.18	11.218	21.125	1.97	-16.06	6.87	0	70.99	72.54
5900	30.7	-5.13	1.93	-0.22	10.242	20.455	1.93	-15.94	7.06	0	70.5	72.38
5910	31.77	-4.98	2.53	0.38	11.429	20.339	2.53	-14.48	7.51	0	71.07	72.21
5920	31.78	-4.98	1.65	-0.5	11.359	20.424	1.65	-15.4	6.63	0	70.67	72.55
5930	35.73	-4.47	3.53	1.38	13.339	22.394	3.53	-16.15	8	90	72.39	72.43
5940	27.38	-5.63	1.37	-0.78	10.766	16.613	1.37	-17.29	6.99	60	70.81	71.61
5950	34.49	-4.62	2.12	-0.03	12.951	21.542	2.12	-16.95	6.74	0	71.56	72.9
5960	32.88	-4.83	3.09	0.94	11.505	21.371	3.09	-20.02	7.92	30	71.3	73.73
5970	31.04	-5.08	1.16	-0.99	10.916	20.12	1.16	-18.31	6.25	0	73.57	73.74
5980	28.64	-5.43	1.81	-0.34	9.304	19.337	1.81	-22.05	7.24	0	72.19	74.22
5990	0	-78.84	-71.29	-73.44	0	0	-71.29	-93.56	7.55	30	0	0
6000	0	-78.88	-71.78	-73.93	0	0	-71.78	-94.87	7.1	0	0	0

Efficiency and gain WiFi-5G

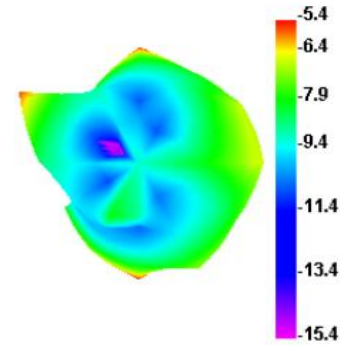
5000.000MHz



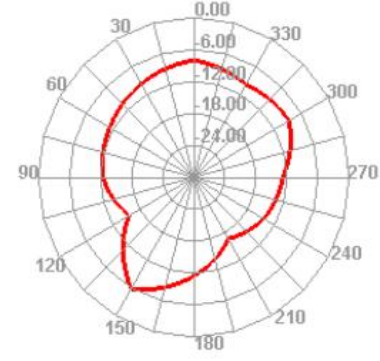
5000.000MHz H



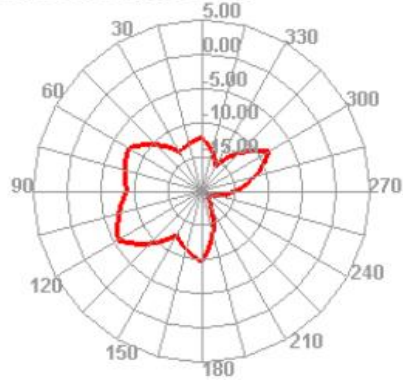
5010.000MHz



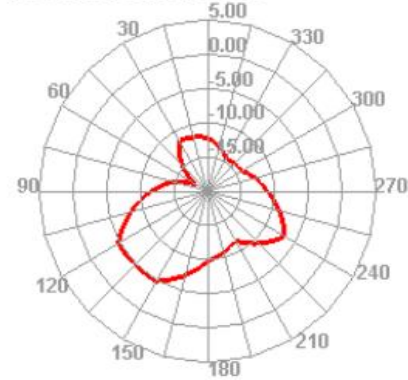
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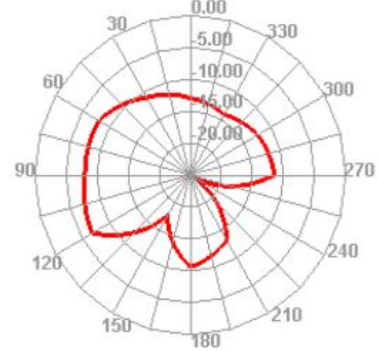
5000.000MHz E1



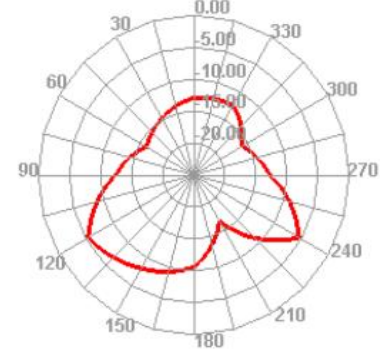
5000.000MHz E2



5010.000MHz E1

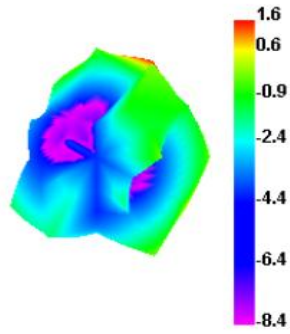


5010.000MHz E2

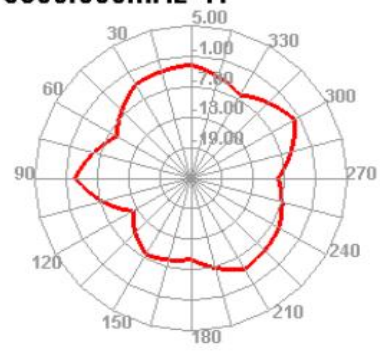


Efficiency and gain WiFi-5G

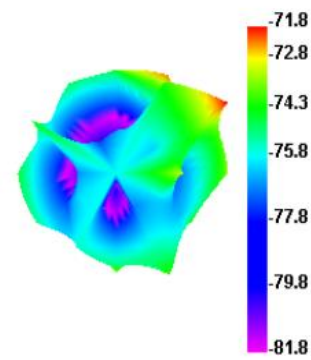
5800.000MHz



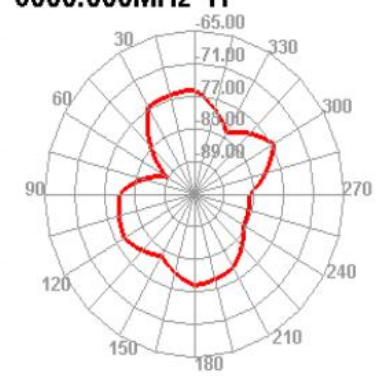
5800.000MHz H



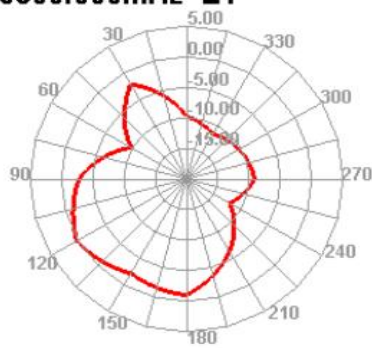
6000.000MHz



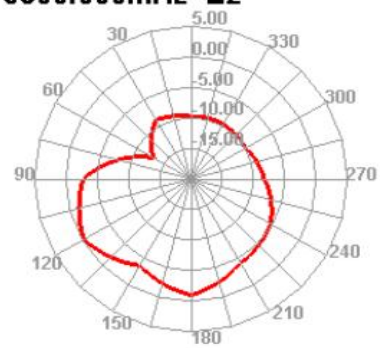
6000.000MHz H



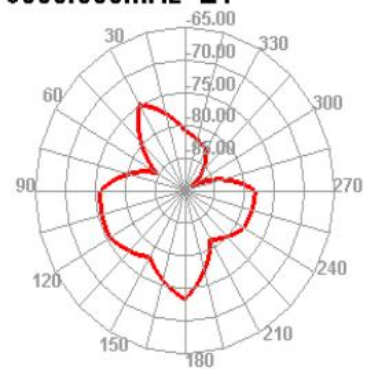
5800.000MHz E1



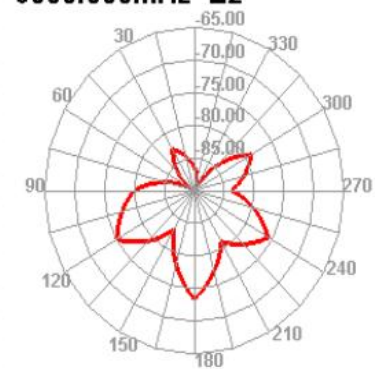
5800.000MHz E2



6000.000MHz E1

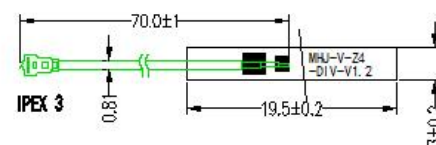
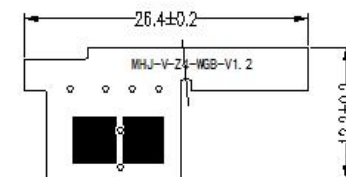
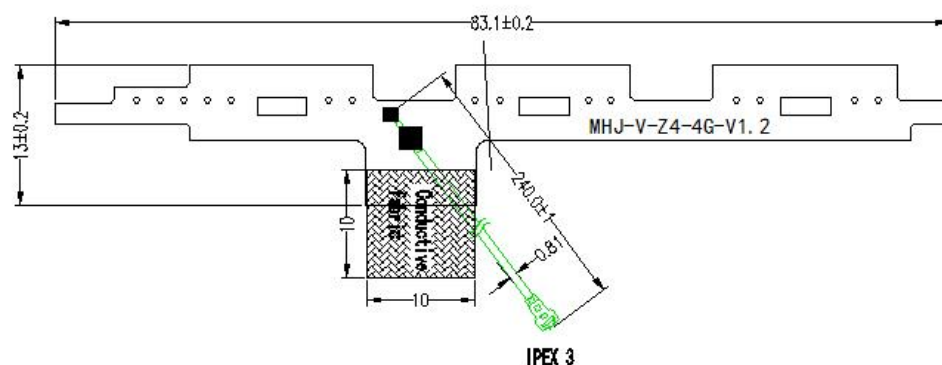


6000.000MHz E2



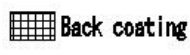
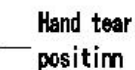
Structural drawings

ROHS



Technical and material requirements:

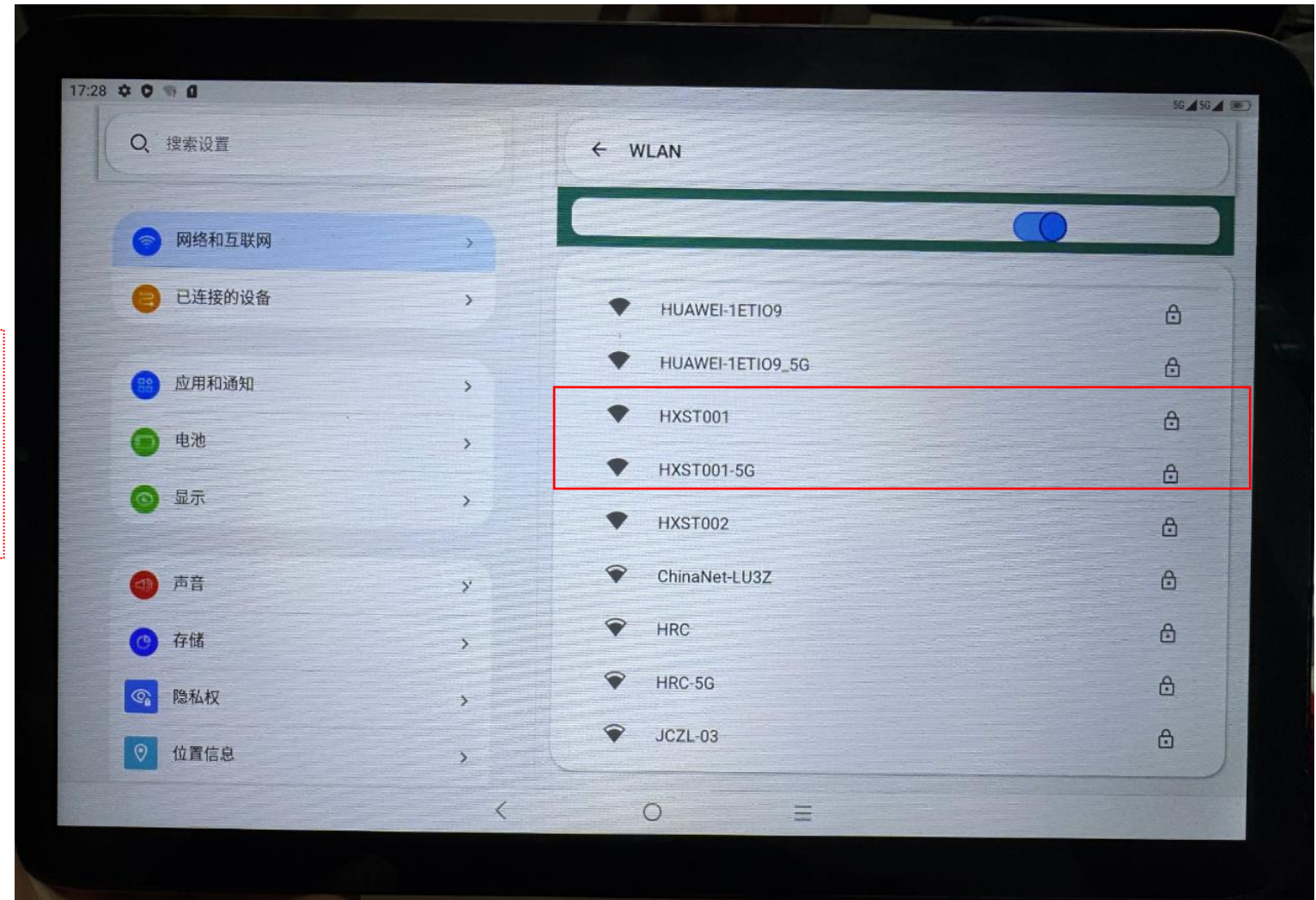
- 1.FPC substrate with a half, good toughness, not easy to tear.
- 2.Oil film (FPC color): black;, back glue: 3M back glue; bright black silk mark
- 3.The product shall meet the company's ROHS and other relevant test requirements
- 4.The linear size is unannotated tolerance as SJ / T 10628 1995 6, tolerance value is divided between upper and lower deviation.



4G+WGB+DIV FPC		Design	liang	Date	2025-4-24
Models	V-Z4	Check	wang	RF	WEI
pattern					
Material	PI+Cu				
proportion	FIT				
Unit	mm	Shenzhen meihejia Technology Co., Ltd.			

Wifi Antenna test

Test environment:
Office space. Distance
from router:
Approximately 15
meters. Our WiFi signal
is at full strength.



Address: Building 43, Zhongwu Industrial Zone, Xixiang Street, Bao's District, Shenzhen

GPS star search test

The actual GPS cold start measurement results are as follows: 4 satellites with CN value above 40, 8 satellites with CN value above 35, and 17 satellites for actual positioning.

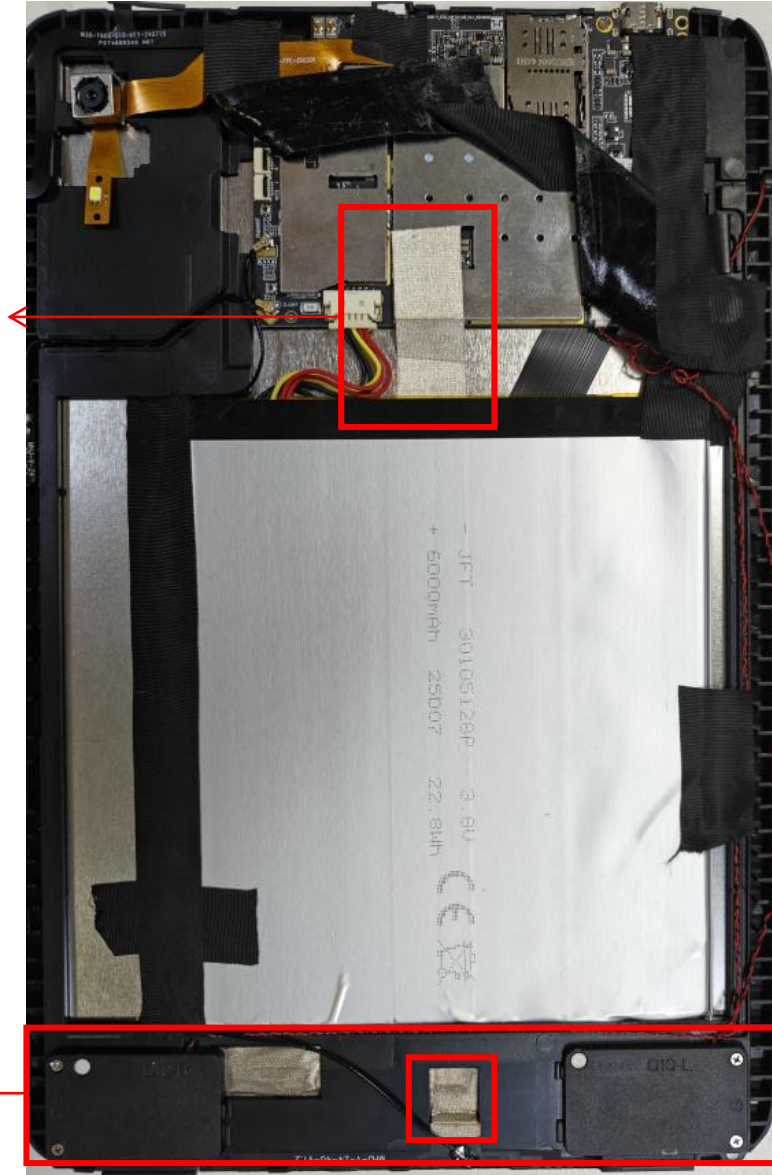
Note: GPS star search performance may vary by time zone and region. The above data represents our company's optimal outdoor test results.



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Environmental treatment

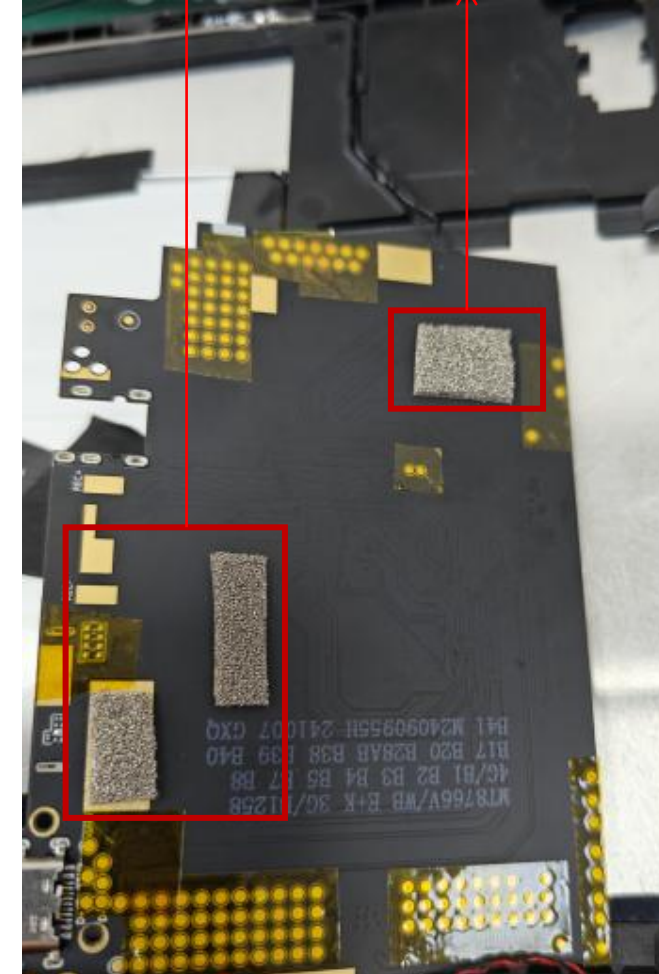
1. Conductive fabric application on motherboard shielding cover and screen grounding



2. A full row of wiring at the bottom of the screen is covered with conductive fabric for shielding.

3. Apply conductive cloth to ground the exposed copper part of the antenna

4. Conductive velvet on the back of the motherboard and screen grounding



Address: Building 43, Zhongwu Industrial Zone, Xixiang Street, Bao's District, Shenzhen



Provide better service to customers

Contact: Xiong Qian 17688765727

Address: F3-005, Hongfenghua Internet Creative Park, No.1 Huangtian Gate Road, Hangcheng Street, Baoan District, Shenzhen
